NKL®
CASH HANDLING

NKL AUTOBANK
D8X

SERVICE MANUAL

NKL® is a member of FireKing Security Group
101 Security Parkway — New Albany IN 47150 USA
Ph. 800.528.9900 or 812-948-8400
www.fireking.com

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1 INTRODUCTION

SCOPE

This manual supports NKL Autobank D8X dispensing safes. This manual is intended to be used by authorized service technicians only. Unauthorized service will void the safe warranty and/or service agreement.

This manual contains abbreviated operation and programming instructions. Complete safe operating instructions are found in the User Manual supplied with the safe.

This manual contains basic theory of operation, trouble-shooting help, repair instructions, and electrical and mechanical parts information.

The original version of this service manual was written in 2001 and it covered all Autobank safes with AuditLok XLV electronics. This updated edition covers the D8X only. Other models now have their own service manuals. Contemporary manufacturing is assumed unless specifically noted otherwise.

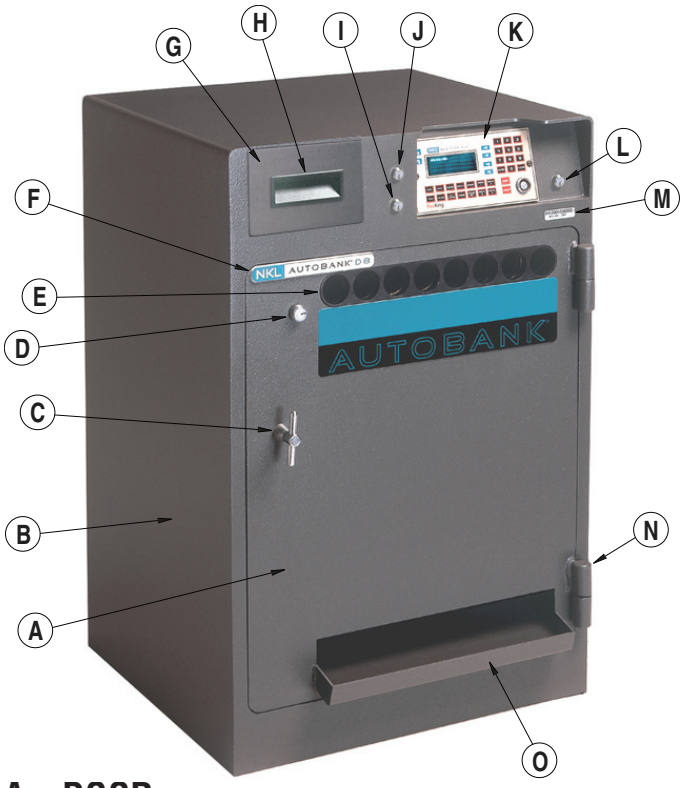
TECHNOLOGY

AuditLok XLV is an electronics package designed to control access to safe compartments and perform all control and monitoring functions required by the hardware. The D8X is not equipped with a cpu. It is therefor limited to stand-alone operation and only basic vending and lock control features.

D8X SAFES

D8X safes hold eight columns of ten tubes each. The manager loads tubes filled with rolls of cash or coins, then cashiers dispenses the tubes as needed during the course of the business day. D8X safes are equipped with a manual drop drawer. Drops may go into a locked interior compartment although the inner compartment is optional. D8X uses Medeco keys for access control. The outer door delay is fixed at 10 minutes. Vend delay is set by DIP switches with a factory default value of 2 minutes. If equipped with an inner compartment, the inner door lock will be a key operated lock.

2 CHASSIS



A—DOOR
The outer door is made of 3/8 inch A-36 steel. The door is laser cut for a perfect fit. It is equipped with a high quality, low profile boltwork for the best security and most efficient operation.

B—BODY
The body is 1/4 inch steel. Inner compartment optional. All electrical connections via rear panel (not shown).

C—HANDLE
The "T" style handle on this safe turns 90° right (clockwise) to open. When the handle is turned, its bolts retract and lock open. When the door shuts, a spring loaded detent mechanism fires the bolts to lock the door and the handle automatically returns to the locked position.

D—TUBELOCK KEY SWITCH
This Medeco® key switch is used to open and close the tube lock blocking bar. It is used to prevent fishing.

E—LOAD COLUMN OPENINGS
Tubes are loaded here. Column 1 is to the left as you look at the front of the safe; column 8 is to the right as you look at the front of the safe.

F—LABEL
Safe logo.

G—MANUAL DROP DRAWER
Pull out, insert drop envelop, push in. The drop will fall into the inner compartment, if present, or the bottom of the safe if there is no inner compartment. The drawer includes an anti-fish feature.

H—DRAWER HANDLE
The plastic insert handle makes it easy to grab and pull the drawer out and it is nearly flush with the front of the safe to prevent accidental injury.

I—ACO KEY SWITCH
This Medeco electrical key switch is used to bypass the outer door delay for armored car service.

J—MGR KEY SWITCH
This Medeco electrical key switch is required for door access and the unload feature.

K—AUDITLOK XLV KEYPAD
The keypad features a touch-membrane surface for protection from spills and a 20x4 fluorescent display.

L—ON-STBY KEY SWITCH
This electrical key switch must be ON in order to perform any keypad operations.

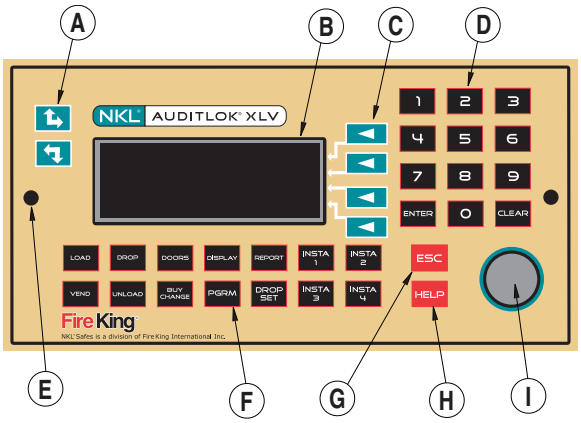
M—CHASSIS SERIAL NUMBER
The serial number begins with SP to indicate manufacture by the FireKing Security Products plant location (early D8 safe serial numbers began with NK to indicate NKL brand). The first four numbers indicate year of manufacture. The next three numbers indicate week of manufacture. The last three numbers indicate sequential number of unit built during that week of that year.

N—HINGE
Safes have two welded hinges on which the door swings open, up to 180°. Do not attempt to clean hinges. Commercial cleaning chemicals will cause the hinge lubricant to break down, making it difficult to open or close the door.

O—DISPENSARY TRAY
When tubes are vended, they drop into this tray area where they may be retrieved.

EXTERNAL POWER SUPPLY (NOT SHOWN)
A power supply transformer connects to the rear panel of the safe.

3 AUDITLOK XLV KEYPAD/DISPLAY



A—SCROLL BUTTONS

Not used on D8X..

B—DISPLAY

This is an 80 character (4 rows, 20 columns) fluorescent display. It can easily be read at some distance in almost any lighting condition.

C—SELECT BUTTONS

Not used on D8X..

D—NUMERIC KEYPAD

This is a standard number pad. Use the **ENTER** button to accept an entered value. Use the **CANCEL** button start over entering a number.

E—MOUNTING

For security the display module is mounted to the chassis or EPR using two Torx (T-25) security screws.

F—ACTION BUTTONS

Not all action buttons apply to every safe, but any given system could use almost any combination of action buttons depending on the application.

LOAD: Not used on D8X.

VEND: Used to vend.

DROP: Not used on D8X.

UNLOAD: Used to empty all tubes from a column.

DOORS: Used for outer door access.

BUY CHANGE: Not used on D8X.

DISPLAY: Check delays or error messages.

PGRM: Not used on D8X.

REPORT: Not used on D8X.

DROP SET: Not used on D8X.

INSTA 1, 2, 3, 4: Not used on D8X.

G—ESC BUTTON

Not used on D8X..

H—HELP BUTTON

Not used on D8X..

I—KEY PORT

Not used on D8X..

4 OPERATION

ON / STANDBY

Place the ON-STANDBY key switch in the ON position before using any operator features. In the ON position, this key switch allows vending, unloading, and opening the door. Place the ON-STBY switch in the STBY position to disable operator features. Standby prevents unauthorized use of vend, unload, and door features.

OPEN OUTER DOOR

To open a door follow these steps:

1. Press DOORS.
2. Turn the Manager Key.
3. A 10 minute door delay* will count up on the display.
4. At the end of the door delay, an audible beep will sound to let you know the delay is complete.
5. Turn the Manager Key to unlock the door before the access period ends.
6. When the display indicates OPEN DOOR NOW, turn the handle and open the door.
7. As soon as your business inside the safe is done, shut the door. The safe will automatically lock.
   **To override the 10 minute door delay, turn the Armor Car Override (ACO) Key and skip to Step 6.*

VEND

Follow these steps to vend a tube of change from the safe:

1. Press VEND.
2. Press the number button for the column you want to vend.
3. The tube will drop into the dispensing tray at the bottom of the door. Take your change from the tube and set the tube aside for re-use.
4. A vend delay will begin immediately after the tube drops. No more tubes may vend until the vend delay ends.

LOAD

To put tubes of change into the safe for vending, follow these steps:

1. Place the tube lock key switch in the unlocked position.
2. Insert tubes as desired. Be sure to put each tube in the proper column.
3. Use your D8 Dipstick to measure the number of tubes in order to verify tube quantities. When a column contains 10 tubes, no additional tubes can be loaded in that column.
4. Return the tube lock to the locked position to prevent unauthorized loading.

UNLOAD

If an error is made when loading (tube inserted in wrong column) or for whatever reason you need to remove all tubes from a column (or columns) follow these steps:

1. Press UNLOAD.
2. Turn the Manager Key to initiate the 5 minute unload delay.
3. When the unload delay ends, an audible beep will sound and the unload access time will count down.
4. Press UNLOAD again.
5. Select the column to unload, or press the arrow select button next to ALL to unload all columns. The tubes will begin being ejected immediately. To prevent a tube jam, remove each tube as soon as it falls into the dispensing tray.
6. If you need to unload a second column, repeat Steps 5 and 6.
7. To exit the Unload procedure, press UNLOAD, then press ESC.

CHECKING TUBE QUANTITIES

Use your D8 Dipstick to check how many tubes are in each column:

1. Place the tube lock key switch in the open position.
2. Insert the dipstick into the opening at the top of the column you wish to check until the stick is stopped by a tube.
3. The number on the stick indicates the number of tubes in the column.

MANUAL DROPS

Follow these steps to make a manual drop into the safe:

1. Prepare your money and deposit slip by inserting them into an NKL drop envelope.
2. Pull out the safe's drop drawer.
3. Place the drop envelope in the drawer.
4. Close the drop drawer. The envelope will fall into the interior of the safe.
5. To verify the envelope is secure, pull the drawer back out to check that the envelope is no longer in the drawer.

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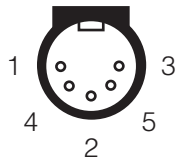
POWER

One of the most common problems with electronic products is partial or complete loss of power. External power supplies are used with NKL safes so that a safe does not need to be drilled open to service the more common types of power supply failures.

Main Power Supply

The three-level main power supply transformer output (±12 V_{DC} and +5 V_{DC}) may easily be checked with a multimeter. The pin-out is shown below. To prevent power supply failure due to surges or spikes, always use an uninterruptible power supply with your safe.



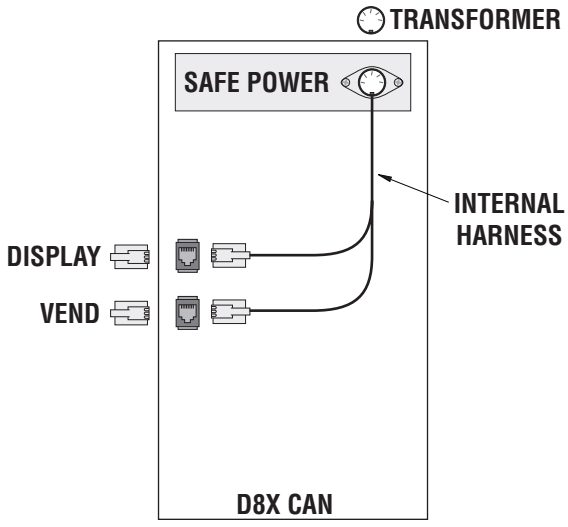
1 = COM
2 = COM
3 = +5 V_{DC}
4 = –12 V_{DC}
5 = +12 V_{DC}

ELECTRONICS CAN

The electronics can inside the D8X contains only cable harnesses for routing power to the display and data to and between the display and main vend board. Can replacement requires access to the inner compartment.

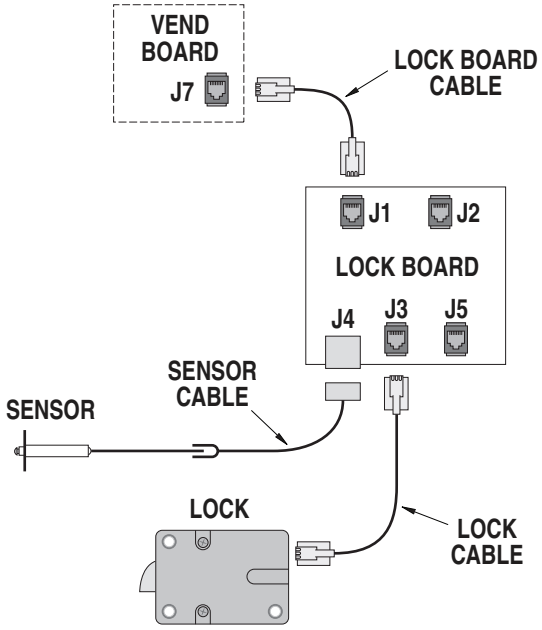
Can Repair / Replacement

To replace, disconnect power from the rear of the safe, disconnect the vend and display cables from the can, then remove the hex nuts holding the can in place. The can should easily slide out. Reverse these steps to replace the can. The only replaceable part inside the D8X can is the internal harness.



DOOR LOCKING SYSTEM

A slide-bolt lock is used on outer doors today. Early safes used a LaGard swing-bolt lock. Either lock has an internal sensor to detect if the lock is locked (bolts extended) or not (bolts retracted). An external plunger sensor detects door condition (open or shut). The lock is connected to a lock board via crossover RJ45/RJ45 cable.



Door Will Not Lock

In this situation the bolts throw normally when the door closes but the handle can still be turned and door opened at any time. The problem may be the lock or the lock controller board.

Test for Stuck Lock Solenoid

Open the safe door. Press the detent to throw the bolts. Disconnect the lock cable at the lock. If the handle can still be turned the solenoid inside lock is stuck and the lock must be replaced. If the handle can no longer be turned the lock board is the most likely problem and it should be replaced.

Door Won't Unlock

In this situation the door is assumed to be closed and the handle cannot be turned when the lock is supposedly energized (everything appears to work normally otherwise). Any of several things may be wrong: lock, lock cable, lock board to vend board cable, lock board or vend board. The most likely problem is pressure against the inside of the door making it difficult to turn the handle. This problem can usually be overcome by pushing against the outside of the safe door while turning the handle.

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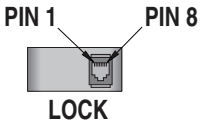
Drill and Repair

If the door is locked shut and cannot be opened using door procedures the door must be drilled open. Contact NKL Technical Service for assistance with drilling instructions. In most cases the cause is a failed lock. Drilling the door open will destroy the lock. After replacing the lock, test door operation with the door open (press and hold the door sensor to silence the alarm). If the new lock does not solve the problem test the MGR and ACO key switches. Next check the key harness cable connection to the vend board and continuity of each of those wires. If the problem is not found test the new lock to ensure the new part is functioning properly. If the problem is still not found replace the lock board.

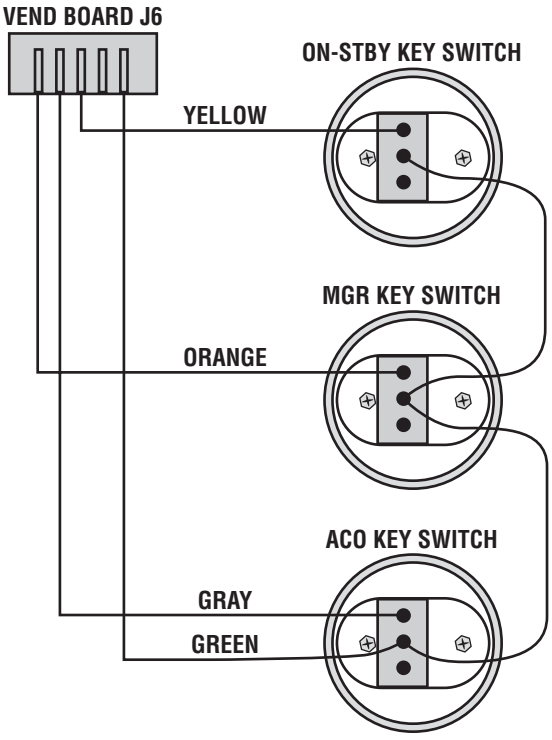
Lock Test

Connect a 9 VDC battery between pins 5 and 8 of the RJ45 port on the lock. The lock solenoid should energize and the slide-bolt should freely slide into the lock body (swing-bolt should rotate into body). If not the lock solenoid has failed – replace the lock.



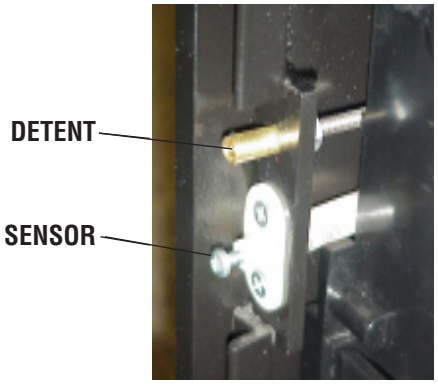
Key Switches

The key switches are mounted in such a way that they are difficult to access directly with a meter. The easiest way to check continuity is to disconnect the key harness from the vend board (J6) and measure from common (green) at the wire harness plug. Key switches are normally open. Key switch wiring:



Continuous Door Alarm

A continuous alarm tone sounds if the lock or door sensor indicates that the door is open more than five minutes or if either sensor detects the door come open without a signal to energize the lock. If the door is shut and locked and the door alarm is sounding, the most likely cause is the door (plunger) sensor. If the a sensor fails the safe will continue to alarm until repaired (or power is removed). The door will still operate normally with a failed sensor although the normal beeps will not be heard due to the alarm condition. When the plunger sensor breaks it is usually easy to see by visual inspection.



Lock Sensor

Sensor continuity may be tested by measuring continuity between pins 3 and 2 (normally open) or between pins 3 and 4 (normally closed) at the RJ45 jack on the lock. If the lock sensor fails replace the lock.

Door Sensor

A simple spring loaded plunger sensor is used to detect physical door status. The plunger switch is normally open. When the plunger switch is pressed (door shut), the plunger switch closes. To replace the sensor remove the vend assembly, remove the sensor screws, disconnect the sensor wires from the cable harness back to the lock board. Reverse these steps to replace the sensor.

Lock Crossover Cable

The cable from lock to lock board is a reverse wired (crossover) RJ45/RJ45 cable. The lock cable is always connected to J3 on the lock board. NKL uses a black crossover cable for easy identification. Connecting the lock via a one-to-one (straight-through) cable to the J3 port on the lock board will definitely cause lock board failure.

Lock Board

The lock board is mounted on the outer door. The lock board may be replaced independently from the vend board.

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Outer Door Mechanical

Door blockage, loose or broken linkage, or some other mechanical problem can prevent a door from opening or shutting correctly. Always perform a complete visual inspection of all mechanical parts when servicing a safe door.

Hinges

The outer door is right-swing (hinges to the right as you look at the safe). Do not use chemical cleaners on hinges.

Boltwork

The boltwork is a relatively simple 3-point low-profile style. The lock is mounted on a bracket at a right angle with respect to the door surface. An "F" guide is mounted to the lock bracket to keep the main vertical bolt linkage aligned and secure.

Detent

The boltwork assembly includes an automatic detent. The detent rod runs across the door between the interior door surface and the vend assembly. To adjust the detent, loosen the hex nut behind the brass end piece, turn the end piece as needed, then tighten the hex nut in place. The detent should reliably catch and hold the bolts retracted when opening the door and should throw the bolts automatically when the exterior surface of the door is about flush with the chassis front surface.

Inner Door (if applicable)

The inner door is equipped with a simple key operated lock and no door sensor.

DISPENSING SYSTEM

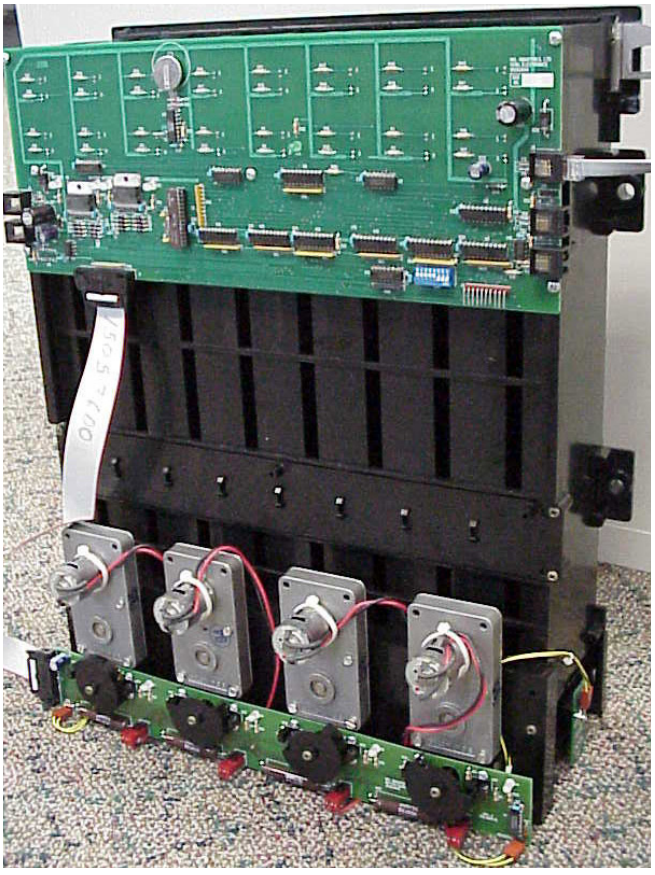
The dispensing system consists of the plastic vend assembly, tube blocking bar and key lock, vend board, motor board, motors, output sensors, and associated cables. D8X units hold up to 80 tubes in the vending mechanism.

Vending Operation

Tubes are loaded through the openings near the top of the door. Fishing is prevented by a key operated tube blocking bar. Tubes are held in columns according to their value. The assembly has four DC motors. Each motor serves two columns. Optic sensors on the motor board detect motor travel. At rest the motor sensors should indicate the rotor cap is centered between columns. Tubes are vended out to the dispensing tray at the bottom of the door. As tubes dispense they pass through and break an optic beam. This beam allows the safe to count tubes during an unload operation.

Vend Assembly Plastics

The vend assembly body parts are constructed using patented plastics technology for tight tolerances and long sturdy life. If the plastics break the entire assembly can be replaced. To remove the plastics disconnect the RJ45 cables from the can and lock board, disconnect the key harness, disconnect the tube lock yoke, remove the four shoulder bolts holding the assembly to the safe door, pull the assembly off the door and set on a static free mat. All electrical components can be stripped off the old assembly and mounted on the new assembly before reinstallation.



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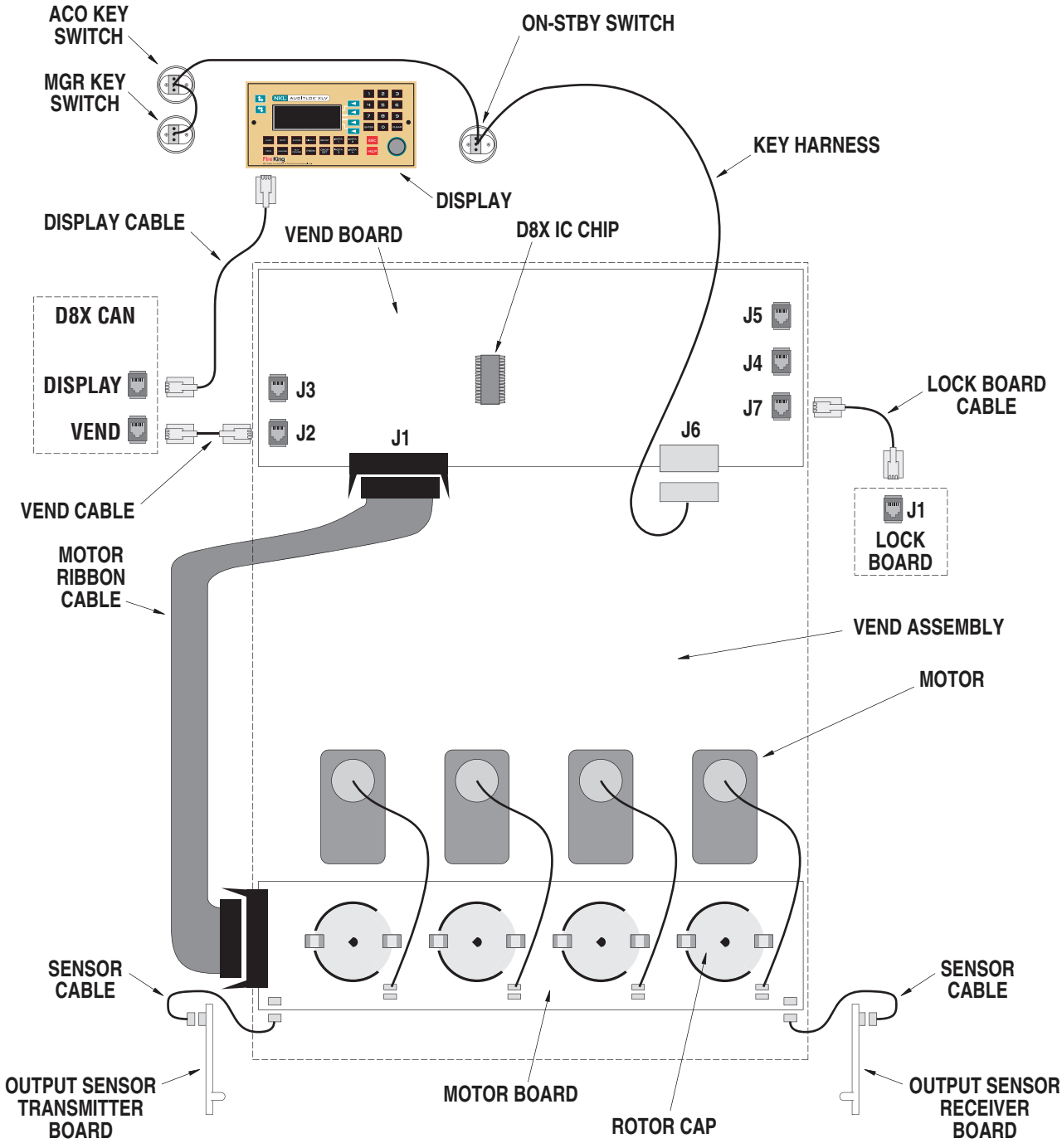

Vend Board

The vend board is mounted to the top of the vend assembly. Input sensors, although not used on the D8X, face into the tube channels. The main IC chip on the D8X is marked to indicate the code version.

Vend Board Connectivity

An armored RJ45/RJ45 cable connects from J2 (hinge side) to the can against the back interior wall. This cable carries power from the external transformer and data between the display and vend board. A short RJ45/RJ45 cable connects from J7 (open side) to the lock board. A five-pin connector plugs into J6. The four wires from this connector are routed through the armored cable to the can for their protection. From there those wires are routed to the inside of the front panel to the key switches mounted there. A broad ribbon cable connects the vend board to the motor board. The ribbon cable sends power to the motors and receives sensor data from the motor board and output sensors.

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DIP Switch Settings

Set Vend Delay using segments 4 to 8 as shown in the chart below. Two minutes is the factory default. To disable the unload delay for test purposes set switch segment 1 to ON. *Be sure to reset Segment 1 to OFF when testing is complete.* To allow the armor car key to be used without the manager key, set switch segment 2 to ON. Segment 3 is not used. Any time a segment of this switch is moved power must be cycled for the change to take effect.

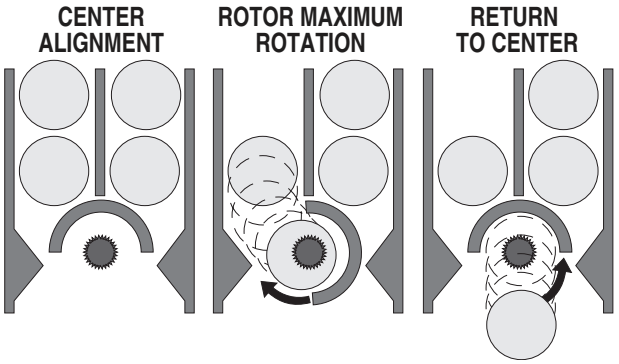
Delay	8	7	6	5	4
0 Min	OFF	OFF	OFF	OFF	OFF
2 Min	**ON**	**OFF**	**OFF**	**OFF**	**OFF**
4 Min	OFF	ON	OFF	OFF	OFF
6 Min	ON	ON	OFF	OFF	OFF
8 Min	OFF	OFF	ON	OFF	OFF
10 Min	ON	OFF	ON	OFF	OFF
12 Min	OFF	ON	ON	OFF	OFF
14 Min	ON	ON	ON	OFF	OFF
16 Min	OFF	OFF	OFF	ON	OFF
18 Min	ON	OFF	OFF	ON	OFF
20 Min	OFF	ON	OFF	ON	OFF
22 Min	ON	ON	OFF	ON	OFF
24 Min	OFF	OFF	ON	ON	OFF
26 Min	ON	OFF	ON	ON	OFF
28 Min	OFF	ON	ON	ON	OFF
30 Min	ON	ON	ON	ON	OFF
32 Min	OFF	OFF	OFF	OFF	ON
34 Min	ON	OFF	OFF	OFF	ON
36 Min	OFF	ON	OFF	OFF	ON
38 Min	ON	ON	OFF	OFF	ON
40 Min	OFF	OFF	ON	OFF	ON
42 Min	ON	OFF	ON	OFF	ON
44 Min	OFF	ON	ON	OFF	ON
46 Min	ON	ON	ON	OFF	ON
48 Min	OFF	OFF	OFF	ON	ON
50 Min	ON	OFF	OFF	ON	ON
52 Min	OFF	ON	OFF	ON	ON
54 Min	ON	ON	OFF	ON	ON
56 Min	OFF	OFF	ON	ON	ON
58 Min	ON	OFF	ON	ON	ON
60 Min	OFF	ON	ON	ON	ON
62 Min	ON	ON	ON	ON	ON

Vend Board Replacement

Remove power to the safe. Disconnect J2, J7, J6, and the ribbon cable to the motor board. Remove the screws holding the vend board to the vend assembly. Reverse these steps when installing the new board. Set the DIP switches on the replacement vend board before reconnecting power.

Motor System

Four DC motors are connected to the motor board. Each motor controls vending from two columns through a gear system to a rotor cup. To vend, the motor turns the rotor in the appropriate direction until a tube drops into the rotor cup. The motor then turns the rotor back to center alignment and the tube drops out. The example below illustrates how one motor-operated rotor cup vends one tube from a pair of columns.

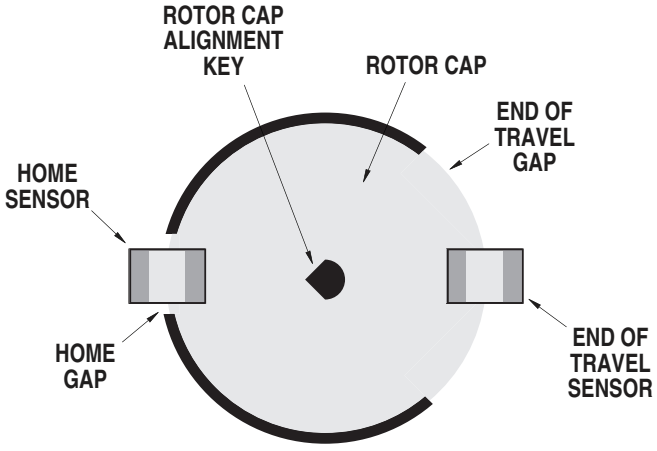


Motors

The DC motors are mounted directly to the plastics assembly. The motor gear engages the cup rotor pinion. Motor wires are routed between the motor board and the plastics and plug into the corresponding jack on the motor board. Motors are operated by 12 V_{DC} and they are polarity sensitive. For test purposes a standard 9 V_{DC} battery may be used to attempt to move a motor. To move a rotor cup by hand, first remove the motor mounting screws and loosen the motor from the rotor.

Motor Board Cup Sensors

Optic sensors on the motor board track rotor cup movement to ensure proper operation. The rotor shaft cup extends through the motor board. A cap is installed on the end of the rotor shaft. This cap has a small notch on one side and a large notch on the other side. The small



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notch is used by one sensor to detect center "home" position and the large notch is used by the other sensor to detect the maximum travel limit. The shaft and cap are keyed to ensure correct alignment. The cap is pressure fit and anchored with a Phillips head screw.

Output Sensors

The output sensor is made up of two small circuit boards mounted to either side of the vend assembly such that they hang from the bottom. One side transmits a beam of light across the empty space beneath the assembly and the other senses the beam. Sensors are marked to avoid confusion as to which is which. Output sensor wires are connected to the motor board. On the D8X an output sensor problem is likely to go unnoticed unless you attempt to unload tubes. During an unload, if the sensors do not detect the beam break temporarily after tubes discharge it will only unload two tubes regardless of the actual number of tubes in the safe. The problem may be beam blockage, dirt on the transmitter or receiver, physical board alignment, or a failure of one of the sensor boards or cables.

Motor Board

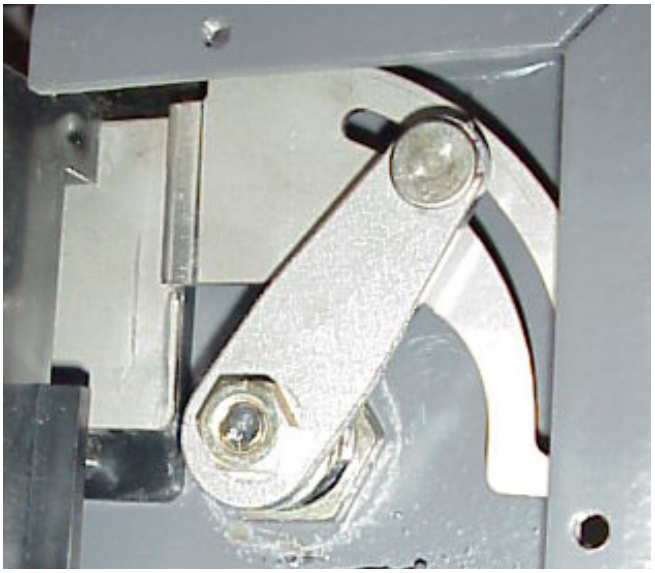
The motor board interfaces the motors, rotor position sensors, and output sensors with the vend board. To replace the motor board disconnect the output sensors, motor wires, and the ribbon cable from the vend board. Remove each rotor cap and note which cap came from which rotor. Remove the anchor screws and replace the board. After reinstalling the screws, carefully reinstall the rotor caps. It works best if you put the same cap back on the same rotor. Reconnect all cables.

Tube Jam

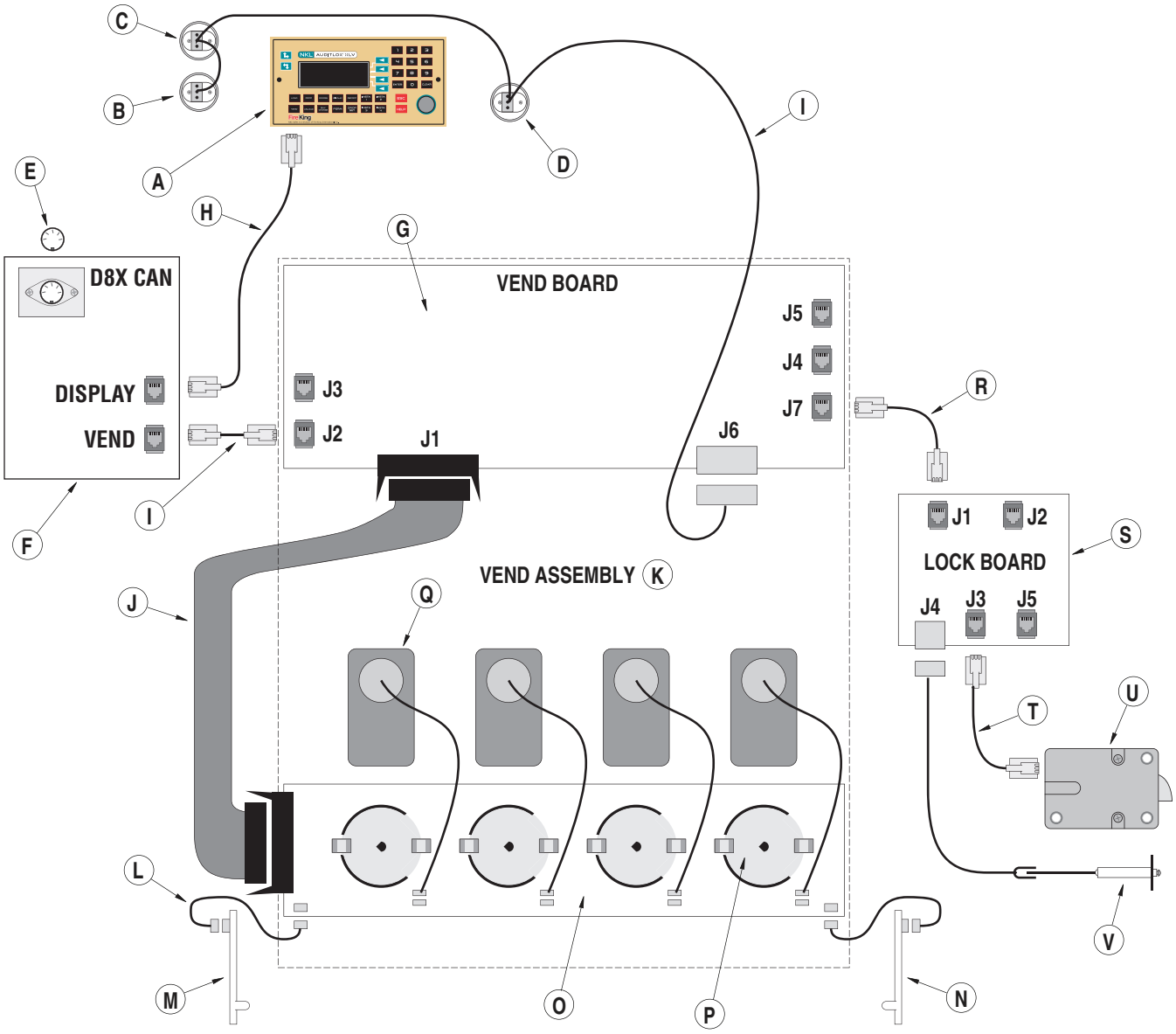
One of the most common service issues is a tube jam. Technically, a tube jam is when rotor cup position sensors are unable detect correct motor movement. The cause is usually a broken or vertical tube or other debris inside a column blocking normal rotor movement. Do not attempt to put fingers in the rotor area while a motor is moving or trying to move. Before attempting to lift tubes up and out of the assembly the tube blocking bar must be in the open position and the vend board should be removed. A thin screwdriver or similar object may be used to push up on the obstruction from below the assembly. There is room in the tray area and space between cups and column walls to do this. Slots into the columns along the back of the vend assembly allow you to use screw drivers or similar thin metal objects to "walk" tubes or debris up and out of the top of the assembly. If absolutely necessary motors may loosened from their mounts to allow cups to be turned by hand. After clearing the tube jam power cycle the safe and verify all motors return their home positions by visually checking rotor cap alignments.

Tube Lock / Blocking Bar

The tube blocking bar is metal plate that is designed to prevent tube fishing. When the blocking bar is in the locked position, the tube openings are partially blocked leaving only enough room to insert a dip stick. The bar is moved out of the way via linkage yoke to a mechanical Medeco key switch. If the tube lock does not move smoothly when operating the key switch, adjust the mechanical linkage as needed. The blocking bar can only be replaced with the plastics assembly removed from the safe door.



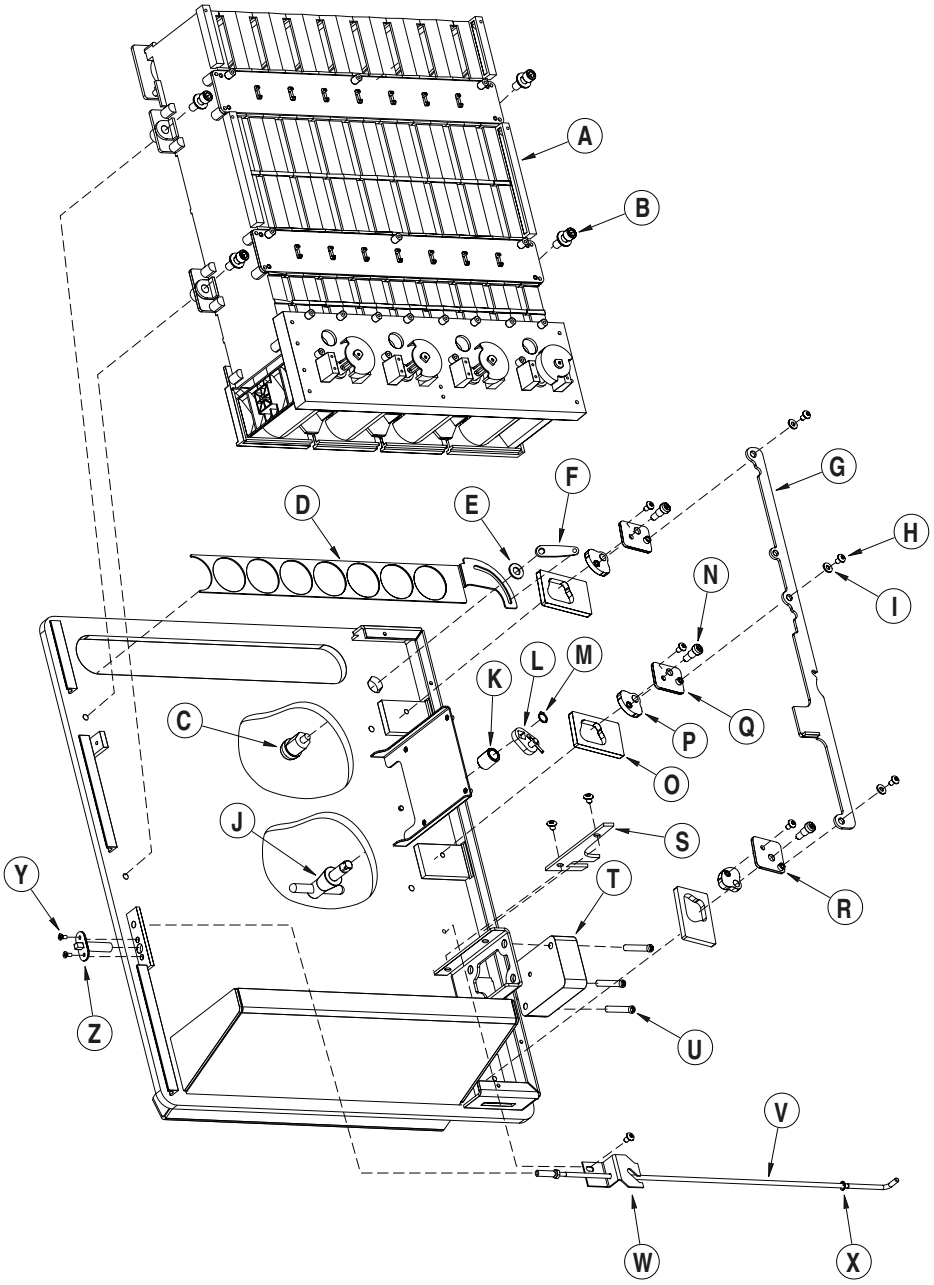
6 ELECTRICAL PARTS



6 ELECTRICAL PARTS

Item	Part	Description
A	15059020	XLV Keypad/Display Module
B	15097037	Medeco Key Switch Pair (MGR & Tube Lock Keyed Alike)
C	800397	Medeco Key Switch (ACO)
D	800316	Wafer Key Switch
E	15000346	External Power Supply Transformer
F	1505A001	D8X Can (includes internal harness 15052510
G	1505310X	Vend Board
H	15009069	Display Cable
I	15052505	Armored Vend/Key Cable Assembly
J	15053600	Vend Ribbon Cable
K	15053000	Vend Assembly (Includes items L - Q and 800135 plastic chassis)
L	15053700	Output Sensor Cable (x2)
M	15053300	Output Sensor Transmitter (Hinge Side)
N	15053400	Output Sensor Receiver (Open Side)
O	15053200	Motor Board
P	16000118	Rotor Cap (x4)
Q	15003006	Motor (x4), (800130 Motor Gear is a separate part)
R	15009080	Lock Board Cable
S	15054000	Lock Board
T	15009083	Lock Cable (crossover)
U	15017000	Lock
V	15054015	Sensor (includes cable)

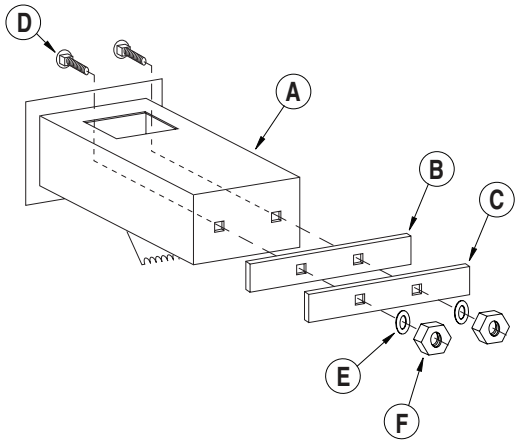
7 DOOR HARDWARE PARTS



7 DOOR HARDWARE PARTS

Item	Part	Description
A	800135	Vend Plastics (See Electrical Parts Item K)
B	HS1206	Shoulder Bolt 5/16 (x4)
C	15097037	Medeco Key Switch Pair (MGR & Tube Lock Keyed Alike)
D	16000002	Tube Blocking Bar
E	800224	Washer 5/16
F	600113	Tube Lock Actuator
G	700041	Bolt Linkage
H	800182	Screw 10-32 x 5/16 (x8)
I	800175	Washer #8, 7/16 OD (x3)
J	800153	Handle
K	800113	Bushing 3/4, 7/16 ID, 5/8 OD
L	600029	Handle Actuator
	800218	Handle Spring (not shown, attached to handle actuator)
M	800152	Retaining Ring
N	800112	Shoulder Bolt (x3)
O	700007	Bolt (x3)
P	600025	Bolt Cam (x3)
Q	600027	Side Bolt Actuator (x2)
R	600028	Bottom Bolt Actuator
S		Guide Bracket
T	15017000	Lock
U	6030022	Lock Screw 1/4-20 x 1 5/16
V	600048	Detent Rod Assembly
	700032	Detent Rod (included with 600048)
	800186	Detent Spring (included with 600048)
	800211	Detent Stand-off Sleeve (included with 600048)
	HN700	Hex Nut 8-32 (included with 600048)
W	700028	Detent Plate
X	800129	Retaining Ring 3/16
Y	800231	Screw 5/16 x 6-32 (x2)
Z	15054015	Sensor (includes cable)
	800184	Wave Washer 7/16 (not shown)

8 MANUAL DROP DRAWER



Item	Part	Description
A	600764	Drop Drawer (Since SP2003028002)
	800064	Small Drop Drawer (Before SP2003028002)
B	701242	Drop Drawer Nylon Stop Stop
C	701243	Drop Drawer Steel Stop Bar
D	HB201	Drop Drawer Backstop Carriage Bolt (x2)
E	6201050	Drop Drawer Backstop Washer (x2)
F	HN201	Drop Drawer Backstop Hex Nut (x2)

9 OTHER PARTS

Part	Description
800513	Dust Cover (latchable, since 2002)
800517	Dust Cover Latch
06030008	Dust Cover Screw, 4-40 x 1/4 (x7)
800328	Dust CoverScrew, 5/16-18 x 7/8 (x4)
800254	Dust Cover (old screw on style)
800234	Dust Cover Screw, 8-32 x 1/4 (for old style)
800149	Hinge Pin
800151	Hinge Ball Bearing
6101001	Inner Door Key Lock
800338	D8X Operator's Manual
800346	Installation Instructions
800208	D8 Label 1/2 x 3 7/8
800268	Autobank Label 3.5 x 14.25
800372	Anchor Kit
600131	Replacement Tubes (box of 80)
16000039	Magnetic Tube Rack
BT-1189	Dipstick
801082	APC Uninterruptible Power Supply